INTERNATIONAL SEARCH REPORT

International application No.

PCT/AU2004/001651

A.	CLASSIFICATION OF SUBJECT MATT	rer			
Int. Cl. 7:	A61M 16/00		·		
According to	International Patent Classification (IPC) or	to bot	national classification and IPC		
В.	FIELDS SEARCHED				
Minimum docu	mentation searched (classification system follo	wed by	classification symbols)		
Documentation	a searched other than minimum documentation to	to the ex	tent that such documents are included in the fields search	hed .	
Electronic data DWPI IPC	base consulted during the international search A61M, A62B & keywords: target, phas	(name o	f data base and, where practicable, search terms used) tion and similar terms		
C.	DOCUMENTS CONSIDERED TO BE RELE	VANT	·		
Category*	Citation of document, with indication, w	here ap	propriate, of the relevant passages	Relevant to claim No.	
Х.	US 6,532,957 B2 (BERTHON-JON column 10 lines 54 to 58, column 12			9-16, 23-40, 49-52, 59-62, 71-79, 82-84, 90-92, 95-97,	
X	WO 2001/019440 A1 (RESMED LT Abstract			102-111 9, 12, 13, 16, 23, 26, 27, 35, 49, 59, 71, 77, 82, 90, 95, 102, 107	
A A	EP 1 086 716 A2 (SIEMENS) 28 M Abstract EP 1 346 743 A1 (WEINMANN MI Abstract				
] ;	Further documents are listed in the con	tinuati	on of Box C X See patent family ann	ex	
"A" docum not con "E" earlier interna	categories of cited documents: ent defining the general state of the art which is sidered to be of particular relevance application or patent but published on or after the tional filing date ent which may throw doubts on priority claim(s)	ñΤu "X"	later document published after the international filing date or profile to with the application but cited to understand the principunderlying the invention document of particular relevance; the claimed invention cannor cannot be considered to involve an inventive step when the alone document of particular relevance; the claimed invention cannor involve an inventive step when the document is combined with	ole or theory t be considered novel document is taken t be considered to	
another	th is cited to establish the publication date of citation or other special reason (as specified) ent referring to an oral disclosure, use, exhibition r means	"&"	such documents, such combination being obvious to a person of document member of the same patent family		
	ent published prior to the international filing date or than the priority date claimed				
Date of the ac	tual completion of the international search 2005		Date of mailing of the international search report 1 7 JAN 2005		
Name and mailing address of the ISA/AU			Authorized officer		
PO BOX 200, E-mail addres	N PATENT OFFICE , WODEN ACT 2606, AUSTRALIA s: pct@ipaustralia.gov.au (02) 6285 3929	,	XAVIER GISZ Telephone No: (02) 6283 2064		

INTERNATIONAL SEARCH REPORT

International application No.

PCT/AU2004/001651

Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)					
This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:					
1. Claims Nos.:					
because they relate to subject matter not required to be searched by this Authority, namely:					
2 Claima Nas					
2. Claims Nos.: because they relate to parts of the international application that do not comply with the prescribed requirements to such					
an extent that no meaningful international search can be carried out, specifically:					
3. Claims Nos.:					
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a)					
Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)					
rnational Searching Authority found multiple inventions in this international application, as follows:					
First invention Claims 1-8, 17-22, 41-48, 53-58, 63-70					
Second invention Claims 9-16, 23-40, 49-52, 59-62, 71-85, 90-97, 102-111					
Third invention Claims 86-89, 98-101 See extra sheet					
see extra sheet					
1. As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.					
2. X As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.					
3. As only some of the required additional search fees were timely paid by the applicant, this international search report					
covers only those claims for which fees were paid, specifically claims Nos.:					
·					
4. No required additional search fees were timely paid by the applicant. Consequently, this international search report is					
restricted to the invention first mentioned in the claims; it is covered by claims Nos.:					
· •					
Remark on Protest					
No protest accompanied the payment of additional search fees.					

DEST AVAILABLE COPY

INTERNATIONAL SEARCH REPORT

International application No.

PCT/AU2004/001651

Supplemental Box

(To be used when the space in any of Boxes I to VIII is not sufficient)

Continuation of Box No: III

The international application does not comply with the requirements of unity of invention because it does not relate to one invention or to a group of inventions so linked as to form a single general inventive concept. In coming to this conclusion the International Searching Authority has found that there are different inventions as follows:

- 1. Claims 1-8, 17-22, 41-48, 53-58, 63-70 are directed to a method for providing ventilatory assistance including the steps of computing a measure of difference between the respiratory airflow and a target value, and delivering air to a patient at a pressure that is a function of the difference measure and the amplitude at a determined phase. It is considered that a function of the difference measure and the amplitude at a determined phase comprises a first "special technical feature".
- 2. Claims 9-16, 23-40, 49-52, 59-62, 71-85, 90-97, 102-111 are directed to a method of providing ventilatory assistance including the steps of computing a measure of difference between the respiratory airflow and a target value and delivering air at a pressure that is a function of the difference measure. It is considered that a function of the difference measure comprises a second special technical feature.
- 3. Claims 86-89, 98-101 are directed to a method of providing ventilatory assistance including the steps of determining two patient ventilation measures with different speeds of response, deriving two error signals that are a function of target values, controlling the delivered pressure based on a function of the error signals.

These groups are not so linked as to form a single general inventive concept, that is, they do not have any common inventive features, which define a contribution over the prior art. The common concept linking together these groups of claims is a method of providing ventilatory assistance including the step of computing the difference between the ventilation of the patient and a target value. However this concept is not novel in the light of WO 2001/019440. Therefore these claims lack unity a posteriori.

IST AVAILABLE COPY

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No. PCT/AU2004/001651

This Annex lists the known "A" publication level patent family members relating to the patent documents cited in the above-mentioned international search report. The Australian Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

	t Document Cited in Search Report			Pate	ent Family Member		
US	6532957	AU	37625/97	AU	41933/97	AU	53961/01
		CA	2263126	CA	2266454	CA	2298547
		CA	2298553	CA	2478809·	EP	0929336
		EP	0996358	EP	1005829	. EP	1005830
		EP	1277435	JP	2001037880	JР	2001046503
		æ	2002315831 .	US	6152129	US	6279569
		US	6484719	US	6575163	US	2002023644
	•	US	2002069874	ÚS	2002148466	US	2003079750
		·US	2004074492	US	2004173212	wo	9806449
	•	wo	9812965				
wo	0119440	AU	74997/00	EP	1229956		•
EP	1086716	JР	2001112868	US-	6739336		
EP	1346743	DE	10212497				

Due to data integration issues this family listing may not include 10 digit Australian applications filed since May 2001.

END OF ANNEX